

CLAIMS

What is claimed is:

1 1. A method for processing a database query on a set of data in a database management
2 system, the method comprising the steps of:

3 a) utilizing a query processor to call a data manager and request the return of
4 data from the set of data;

5 b) allowing the data manager to locate query-specified data and make a
6 determination regarding the query-specified data;

7 c) utilizing the data manager to write the query-specified data to a buffer based
8 on the determination; and

9 d) utilizing the query processor to retrieve the query-specified data from the
10 buffer.

1 2. The method of claim 1 wherein the determination involves determining whether the
2 query-specified data is to be ignored, consumed, or returned to the query processor.

1 3. The method of claim 2 wherein the determination is that the query-specified data is
2 to be returned to the query processor.

1 4. The method of claim 3 wherein the set of data is stored on a plurality of pages and
2 step b) further comprises:

3 b1) locating a page containing query-specified data;

4 b2) stabilizing the page; and

5 b3) accessing the page.

1 5. The method of claim 4 wherein step c) further comprises:

2 c1) maintaining the stabilization of the page, while the data manager writes all
3 the query-specified data on the page to the buffer.

1 6. A system for processing a database query on a set of data in a database management
2 system, the system comprising:

3 a data manager;

4 a query processor comprising means to call the data manager and request the return
5 of data from the set of data;

6 means for allowing the data manager to locate query-specified data and make a
7 determination regarding the query-specified data;

8 means for utilizing the data manager to write the query-specified data to a buffer the
9 data manager to write the query-specified data to a buffer based on the determination; and

10 means for utilizing the query processor to retrieve the query-specified data from the
11 buffer.

1 7. The system of claim 6 wherein the determination involves determining whether the
2 query-specified data is to be ignored, consumed, or returned to the query processor.

1 8. The system of claim 7 wherein the determination is that the query-specified data is to

2 be returned to the query processor.

1 9. The system of claim 8 wherein the set of data is stored on a plurality of pages and the
2 means for allowing the data manager to locate query-specified data further comprises:

3 means for locating a page containing query-specified data;

4 means for stabilizing the page; and

5 means for accessing the page.

1 10. The system of claim 9 wherein the means for utilizing the data manager to write the
2 query-specified data to a buffer further comprises:

3 means for maintaining the stabilization of the page, while the data manager writes all
4 the query-specified data on the page to the buffer.

1 11. A computer readable medium containing program instructions for processing a
2 database query on a set of data in a database management system, the program instructions
3 comprising the steps of:

4 a) utilizing a query processor to call a data manager and request the return of
5 data from the set of data;

6 b) allowing the data manager to locate query-specified data and make a
7 determination regarding the query-specified data;

8 c) utilizing the data manager to write the query-specified data to a buffer based
9 on the determination; and

10 d) utilizing the query processor to retrieve the query-specified data from the
11 buffer. buffer.

1 12. The computer readable medium of claim 11 wherein the determination involves
2 determining whether the query-specified data is to be ignored, consumed, or returned to the
3 query processor.

1 13. The computer readable medium of claim 12 wherein the determination is that the
2 query-specified data is to be returned to the query processor.

1 14. The computer readable medium of claim 13 wherein the set of data is stored on a
2 plurality of pages and step b) further comprises:

- 3 b1) locating a page containing query-specified data;
- 4 b2) stabilizing the page; and
- 5 b3) accessing the page.

1 15. The computer readable medium of claim 14 wherein step c) further comprises:

- 2 c1) maintaining the stabilization of the page, while the data manager writes all
3 the query-specified data on the page to the buffer.